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03/02/2004	Alexander Gad	60807-AA-PCT-US/JPW/GJG/D 4992			
06/16/2005		EXAMINER			
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Ρ.		ARTINIT	PAPER NUMBER		
1185 Avenue of the Americas New York, NY 10036					
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner										
## Deficiency Price Price		:	Application No	o.	Applicant(s)					
Privary Huysh - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE Three. MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less than thirty (30) days, a reply within the statutory windows of the private of the period for reply specified above is less than thirty (30) days, a reply within the statutory windows of the period for reply specified above. The manner material period will apply adjultation to become a Ashidonet (30 U.S.C. § 13). Any septy received by the Office later than there meaths after the malting date of this communication, even if therely filled, may reduce any seemed patient and quistrent. See 37 CFR 1.79(b). Status 1) Seponsive to communication(s) filled on 28 March 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 123.127.134.138.145.149.155 and 159.164 islare pending in the application. 4) Claim(s) 123.127.134.138.143.139.144.145.149.150.155.159 and 160 islare rejected. 7) Claim(s)			10/792,311		GAD ET AL.					
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Art Unit: 1644

DETAILED ACTION

- 1. Claims 123, 127-134, 138-145, 149-155 and 159-164 are pending.
- 2. The search report on PTO 1449, filed 4/22/05 has been considered but crossed out because a search report is inappropriate to be printed on an issued patent.
- 3. In view of the amendment filed 3/28/05, the following rejections remain.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 123, 127-128, 133-134, 138-139, 144-145, 149-150, 155 and 159-160 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat 5,800,808 (Sept 1, 1998; PTO 1449) as evident by the Pharmacia Biotech Directory (page 340-341, 1996; PTO 892).

The '808 patent teaches a process for obtaining a pharmaceutical product containing an aqueous mixture of polypeptides each of which consists of essentially of alanine, glutamic acid, tyrosine and lysine wherein the reference mixture has a desired average molecular weight of about 4,000-8,600 Dalton which is within the claimed average molecular weight from 4000 to 13,000 Daltons (see col. 2, lines 8-14, in particular). During the process, a batch of the reference aqueous mixture of polypeptides is chromatograph on a column to such as Fractogel TSK and

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Superose 12 column (see col. 3, line 6-8, in particular) to establish a relationship between retention time on the column and the molecular weight (see paragraph bridging cols 2-3, in particular). The reference superpose 12 column inherently comprises a cross-linked agarose-based medium, with an exclusion limit of 2 x 10⁶ Daltons, an optimal separation range of 1000 to 3x 10⁵ Daltons and a bead diameter of 20-40 µm based on average molecular weight of the reference 4,000-8,600 Daltons which is within the claimed average molecular weight from 4000 to 13,000 Daltons and as evident by evidentiary reference Pharmacia Biotech Directory (page 341, in particular). The reference process of obtaining the reference pharmaceutical product is by column chromatography of L-GLAT to obtain the desired average of molecular weight species (see Summary of invention, in particular).

Applicants' arguments filed 3/26/05 have been fully considered but are not found persuasive.

Applicants' position is that the '808 patent does not disclose a plurality of molecular weight markers each of which is a polypeptide consisting essentially of alanine, glutamic acid, tyrosine and lysine and having a predetermined amino acid sequence. Therefore, applicants maintain that the '808 patent does not anticipate applicants' invention.

In response, the predetermined amino acid sequences of the molecular markers are not recited in based claims.

6. Claims 123, 133-134 and 144 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat 5,858,964 (filed April 1995; PTO 1449).

The '964 patent teaches a process for obtaining a pharmaceutical product containing an aqueous mixture of polypeptides each of which consists of essentially of alanine, glutamic acid, tyrosine and lysine wherein the reference mixture has a desired average molecular weight of about 4,000-12,000 which is within the claimed average molecular weight from 4000 to 13,000 Daltons (see Summary of invention, col. 3, line 1-4, in particular). The reference process of obtaining the reference pharmaceutical product is by column chromatography of L-GLAT to obtain the desired average of molecular weight species (see col. 4, line 8-10, in particular). The step of calibrating the molecular weight obtained using the column chromatography is inherent in the reference process given that the reference method produces the same desire molecular weight. The reference polypeptide is copolymer-1, which is also known as glatiramer acetate (see col. 2, lines 18-21, in particular). The reference process further comprises a step of lyophilized the

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reference glatiramer acetate (see col. 4, line 35-36, in particular). Thus, the reference teachings anticipate the claimed invention.

Applicants' arguments filed 3/26/05 have been fully considered but are not found persuasive.

Applicants' position is that the '964 patent does not disclose a plurality of molecular weight markers each of which is a polypeptide consisting essentially of alanine, glutamic acid, tyrosine and lysine and having a predetermined amino acid sequence. Therefore, applicants maintain that the '964 patent does not anticipate applicants' invention.

In response, the predetermined amino acid sequences of the molecular markers are not recited in based claims.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 103(a) that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering Patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 123, 127-128, 134, 138-139, 145, 149-150, 155, and 159-160 are rejected under 35 U.S.C.
 103(a) as being unpatentable over US Pat 5,858,964 (filed April 1995; PTO 1449) in view of Pharmacia Biotech Directory (page 340-341, 1996; PTO 892).

The teachings of the '964 patent have been discussed supra.

The invention in claims 127, 138, 149 and 159 and differs from the teachings of the references only in that the process for obtaining a pharmaceutical product wherein the gel permeation chromatography column comprises a cross-linked agarose-based medium, with an

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exclusion limit of 2 x 10^6 Daltons, an optimal separation range of 1000 to 3x 10^5 Daltons and a bead diameter of 20-40 μm .

The invention in claims 128, 139, 150, and 160 differs from the teachings of the references only in that the process for obtaining a pharmaceutical product wherein the gel permeation chromatography column is Superose 12.

The Pharmacia Biotech directory teaches a process of separating peptide based on sized using Superose column such as Superose 12 that is a media that provides high resolution gel filtration at rapid flow rates in a wide range of buffer conditions (see page 340, col. 1, in particular). The reference gel permeation chromatography column comprises a cross-linked agarose-based medium with an exclusion limit of 2 x 10⁶ Daltons, an optimal separation range of 1000 to 3x 10⁵ Daltons and a bead diameter of 20-40 µm (see page 341, far right col., in particular). The reference further teaches that the highly cross-linked agarose structure of Superose is suitable for separation, purification and molecular weight determination of proteins, peptides and nucleic acid (see page 340, col. 1, first paragraph, in particular).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the chromatography column as taught by the '964 patent for the Superose column as taught by the Pharmacia Biotech directory for a method of obtaining a pharmaceutical product based on size exclusion as taught by the '964 patent and the Pharmacia Biotech directory. From the combined teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention.

One having ordinary skill in the art would have been motivated to do this because the Pharmacia Biotech directory teaches that the highly cross-linked agarose structure of Superose is suitable for separation, purification and molecular weight determination of proteins, peptides and nucleic acid (see page 340, col. 1, first paragraph, in particular). The '964 patent teaches the desired average of molecular weight of copolymer-1 or glatiramer acetate that consists of essentially of alanine, glutamic acid, tyrosine and lysine as a pharmaceutical product is about 4,000-12,000 which is within the claimed average molecular weight from 4000 to 13,000 Daltons (see Summary of invention, col. 3, line 1-4, in particular).

Applicants' arguments filed 3/26/05 have been fully considered but are not found persuasive.

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Applicants' position is that the '964 patent does not disclose a plurality of molecular weight markers each of which is a polypeptide consisting essentially of alanine, glutamic acid, tyrosine and lysine and having a predetermined amino acid sequence. Therefore, applicants maintain that the '964 patent does not anticipate applicants' invention.

In response, the predetermined amino acid sequences of the molecular markers are not recited in based claims.

10. Claims 129-132, 140-143, 151-154, and 161-164 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

11. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Huynh "NEON" whose telephone number is (571) 272-0846. The examiner can normally be reached Monday through Friday from 9:00 am to 5:30 p.m. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The IFW official Fax number is (571) 273-8300.
- Any information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong N. Huynh, Ph.D.

Patent Examiner

Technology Center 1600

June 10, 2005

CHRISTINA CHAN
SUPERVISORY PATENT EXAMINER

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